

Notice of Allowability

Application No.

10/820,218

Examiner

Anne R. Kubelik

Applicant(s)

CAMMACK

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to response and amendment filed 4/25/07.
2. ☒ The allowed claim(s) is/are 1-5 and 7-24.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☒ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of Reference's Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☒ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Robert Hanson on 5 July 2007.

IN THE CLAIMS:

Claim 6 is cancelled without prejudice.

15.(Original) The A corn plant produced by the method of claim 2 17, ~~further comprising a transgene introduced by genetic transformation.~~

19. (Currently amended) A method of producing a conversion ~~of~~ in the corn variety I002573 to express at least one new trait, the method comprising the steps of:

- (a) crossing a first corn plant ~~having a first diploid genome comprising a plurality of paired chromosomes comprising a plurality of mappable genetic loci with a pair of alleles at each locus, and further comprising a conversion locus~~ that confers at least one new trait, with a second plant of the corn variety I002573, a sample of the seed of the corn variety I002573 having been deposited under ATCC

Accession No. -----, the plant of the corn variety I002573 having a second diploid genome comprising a plurality of paired chromosomes comprising a plurality of mappable genetic loci with a pair of alleles at each locus, to produce seed comprising a diploid genome having a plurality of paired chromosomes comprising a plurality of mappable genetic loci with a pair of alleles at each locus, wherein one of the alleles is contributed by the first corn plant and the other is contributed by the plant of the corn variety I002573, said genome further comprising the conversion that confers the new trait;

- (b) harvesting and planting the seed thereby produced to produce at least one progeny plant of the first filial generation, said progeny plant comprising a diploid genome comprising the conversion;
- (c) crossing said progeny plant with a plant of the corn variety I002573 to produce seed of a subsequent filial generation, the seed comprising a diploid genome having a plurality of paired chromosomes comprising a plurality of mappable genetic loci with a pair of alleles at each locus, wherein one of the alleles is contributed by the progeny plant and the other is contributed by the plant of the corn variety I002573, and further comprising the conversion locus that confers the new trait;
- (d) growing at least one progeny plant of the subsequent filial generation from the seed produced in step (c), said progeny plant comprising a genome comprising the conversion that confers the new trait;

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- (e) repeating steps (c) and (d) for at least one additional generation to produce a converted plant of the corn variety I002573 ~~wherein the plant comprises a diploid genome having a plurality of paired chromosomes comprising a plurality of mappable genetic loci with a pair of alleles at each locus~~, wherein both alleles at substantially all of the genetic loci in the converted plant consist essentially of the allele found at the same locus in corn variety I002573, the genome plant further comprising the ~~conversion~~ locus that confers the new trait; and
- (f) harvesting the seed of the converted plant.

20. (Currently amended) The method of claim 19, wherein the ~~conversion~~ locus that confers the new trait was produced by genetic transformation.

23. (Currently amended) A hybrid corn seed ~~having a male parent and a female parent, wherein the male and female parents each comprise a diploid genome having a plurality of paired chromosomes comprising a plurality of mappable genetic loci with a pair of alleles at each locus; the hybrid corn seed also comprising a diploid genome having a plurality of paired chromosomes comprising a plurality of mappable genetic loci with a pair of alleles at each locus, one of the alleles being contributed by the male parent and the other being contributed by the female parent, wherein one of the~~ whose parents is a plant of the corn variety I002573, a sample of the seed of said corn variety I002573 having been deposited under ATCC Accession No. -----, and wherein the other parent is a plant of a different variety; ~~whereby one allele at each locus in the hybrid genome consists essentially of the allele found at the same locus in corn variety~~

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~~I002573, and further whereby the other allele in a plurality of such loci in the hybrid genome is different from the allele found at the same locus in corn variety I002573.~~

REQUIREMENT OF ALLOWANCE UNDER 37 CFR §§ 1.801-1.809

2. The Deposit Statement filed 25 April 2007 is deemed in accordance with 37 CFR §§ 1.801-1.809. Therefore, no 35 USC § 112, first paragraph rejection has been maintained even though it is apparent that I002573 corn seed is essential to the claimed invention and that the deposit is necessary for an adequate written description and enablement for the claimed invention.

Since the application is otherwise in condition for allowance except for the needed deposit of I002573 seed and since the Office has received written assurance that an acceptable deposit will be made on or before payment of the issue fee, the Office is authorized to mail Applicant a Notice of Allowance and Issue Fee Due together with a requirement that the needed deposit be made within THREE (3) MONTHS of the mail date of this letter (see 37 CFR § 1.809(c)).

Under 37 CFR § 1.809(c)(d) an applicant is required to make a deposit of seed within three months after the mailing date of the Notice Of Allowance and Issue Fee Due. The period for satisfying this requirement is extendible under ' 1.136, however, failure to make the needed deposit of seeds of 925847 will result in abandonment of the application for failure to prosecute. The deposit statement in the specification, and all claims which refer to the instant seeds by name, must be amended to include the deposit accession number. In the instant application claim 1 must be amended to recite the deposit accession number. These amendments should be submitted before the payment of the issue fee as an Amendment After Allowance under 37 CFR § 1.312. If the amendment is received after the payment of the issue fee the same should be made under the provisions of 37 CFR § 1.312(a) and a petition filed under 37 CFR § 1.183 to waive the requirement of 37 CFR § 1.312 that the amendment be filed before or with payment of the issue fee, that is, it must be accompanied by a fee in accordance with 37 CFR § 1.17(i) and a petition which includes "a showing of good and sufficient reasons why the amendment is

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necessary and was not earlier presented and why justice requires waiver of the rule". Finally, the statement of deposit in the specification shall contain:

- (1) The accession number for the deposit(s);
- (2) The date of the deposit(s);
- (3) A description of the deposited biological material sufficient to specifically identify and to permit examination; and
- (4) The name and address of the depository (see 37 CFR § 1.809(d)).

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anne R. Kubelik, whose telephone number is (571) 272-0801. The examiner can normally be reached Monday through Friday, 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anne Marie Grunberg, can be reached at (571) 272-0975.

The central fax number for official correspondence is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

Anne Kubelik, Ph.D.
July 5, 2007

/Anne Kubelik/
Primary Examiner